```
Sequence alignment A
SEO ID NO: 8
RESULT 29
US-08-883-086-3
; Sequence 3, Application US/08883086
: Patent No. 6171787
; GENERAL INFORMATION:
    APPLICANT: WILEY, STEVEN
    TITLE OF INVENTION: MEMBER OF THE TNF FAMILY USEFUL
    TITLE OF INVENTION: FOR TREATMENT AND DIAGNOSIS OF DISEASE
    NUMBER OF SEQUENCES: 13
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Abbott Laboratories
      STREET: 100 Abbott Park Road
      CITY: Abbott Park
STATE: IL
      COUNTRY: USA
      ZIP: 60064-3500
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Diskette
      COMPUTER: IBM Compatible
      OPERATING SYSTEM: DOS
      SOFTWARE: FastSEQ Version 2.0
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/883,086
      FILING DATE:
      CLASSIFICATION: 424
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER:
      FILING DATE:
    ATTORNEY/AGENT INFORMATION:
      NAME: Porembski, Priscilla E.
      REGISTRATION NUMBER: 33,207
      REFERENCE/DOCKET NUMBER: 6134.US.01
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 847-937-0378
      TELEFAX: 847-938-2623
      TELEX:
  INFORMATION FOR SEQ ID NO: 3:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 147 amino acids
      TYPE: amino acid
      STRANDEDNESS: single
      TOPOLOGY: linear
    MOLECULE TYPE: No. 6171787e
US-08-883-086-3
 Query Match 28.7%; Score 210; DB 2; Length 147; Best Local Similarity 37.1%; Pred. No. 9e-19;
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          85 GRQETLFRCIRSMP-SHPDRAYNSCYSAGVFHLHQGDILSVIIPRARAKLNLSPHGTFLG 143
Db
         138 ALKL 141
Qy
DЬ
         144 FVKL 147
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10/611,399 Sequence search SEQ ID NO: 8

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Resu.		_	Query			TD	Dogarintian	
	э.	Score		Length	שמ	ID	Description	
			99.9		2	AAW62460	Aaw62460 Human T c	
	1	730		285 153	3	AAY97036	Aay97036 Soluble h	
	2	724 724	99.0	285	3	AAY97037	Aay97037 Membrane	
	3 4	724	99.0	152	8	ADW80400	Adw80400 Human B 1	
		722	98.8	152	8	ADW80398	Adw80398 Human B 1	
	5 6	715.5	98.6	232	4	AAY71916	Aay71916 Fusion po	
			97.9	285	7	ADK70723	Adk70723 Human B l	
	7 8	711 711	97.3 97.3	299	7	ADM77959	Adm77959 Plasmid v	
	9	711	97.0	152	8	ADK13666	Adk13666 hTNFSF13b	
	10	708	96.9	152	8	ADK13667	Adk13667 hTNFSF13b	
	11	689	94.3	152	8	ADK13668	Adk13668 hTNFSF13b	
	12	684	93.6	152	8	ADK13669	Adk13669 hTNFSF13b	
	13	684	93.6	152	8	ADK13665	Adk13665 hTNFSF13b	
	14	676.5	92.5	284	8	AD005611	Ado05611 Human EXM	
	15	657	89.9	144	3	AAY97038	Aay97038 Soluble m	
		657	89.9	147	3	AAB08271	Aab08271 Amino aci	
	16 17	657	89.9	183	6	ABP96297	Abp96297 Mouse TNF	
	18	657	89.9	183	8	ADK13670	Adk13670 Mouse TNF	
	19	.657	89.9	184	5	AAU79151	Aau79151 Rat Neutr	
		.657	89.9	184	5	ABG96473	Abq96473 Rat Neutr	
	20		89.9	184	6	AAE37312	Aae37312 Rat neutr	
	21 22	657 657	89.9	184	7	ADJ92651	Adj92651 Rat neutr	
	22 23	657	89.9	239	5	ABJ00719	Abj00719 Rat B lym	
	23 24	657	89.9	239	-	ABP47221	Abp47221 Human BLy	
	24 25	657	89.9	239	5	ABG33580	Abg33580 Rat B Lym	
	25	057	09.9	237	,	MG33300		
ID XX AC XX DT XX DE XX KW KW KW KW KW XX OS XX PN XX PD XX PF XX PF XX PR PR XX PA	XX AC AAB08271; XX DT 04-DEC-2000 (first entry) XX DE Amino acid sequence of a mouse TNF ligand AGP-3. XX KW AGP-3; tumour necrosis factor ligand; TNF ligand; Crohn's disease; XW type II transmembrane protein; B cell stimulatory factor; XW inflammatory disorder; immune disorder; rheumatoid arthritis; XW lupus and graft versus host disease. XX OS Mus sp. XX PN W0200047740-A2. XX PP 17-AUG-2000. XX PF 11-FEB-2000; 2000WO-US003653. XX PR 12-FEB-1999; 99US-0119906P. PR 18-NOV-1999; 99US-0166271P.							
XX PI XX	(AMGE-) AMGEN INC. Boyle WJ, Hsu H;							
DR XX	WPI; 2000-558217/51.							
PT PT PT	Novel polypeptides comprising tumor necrosis factor ligand family proteins, useful for treating inflammatory and immune disorders, e.g. rheumatoid arthritis.							

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Claim 14; Fig 9; 71pp; English.
PS
\mathbf{x}\mathbf{x}
    AAB08265-83 represent tumour necrosis factor (TNF) ligands. The
CC
    specification describes an AGP-3 polypeptide, which is TNF ligand family
CC
    member. AGP-3 is a type II transmembrane protein, and is a potent B cell
CC
    stimulatory factor. Expression of AGP-3 correlates to increases in the
CC
    number of B cells and immunoglobulins produced. AGP-3 proteins,
    antibodies, and nucleic acids may be used to treat inflammatory and
CC
    immune disorders, e.g. rheumatoid arthritis, Crohn's disease, lupus and
CC
    graft versus host disease. The nucleic acids may be used to regulate the
CC
    expression of an AGP-3 related protein. The AGP-3 proteins, antibodies
CC
    and nucleic ands are also useful for the detection of AGP-3 agonists,
CC
    antagonists and characterizing interactions with AGP-3 related proteins
CC
ХX
    Sequence 147 AA;
SO
 Query Match 89.9%; Score 657; DB 3; Length 147; Best Local Similarity 87.2%; Pred. No. 1.4e-73;
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             6 ODCLOLIADSDTPTIRKGTYTFVPWLLSFKRGNALEEKENKIVVRQTGYFFIYSQVLYTD 65
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          61 KTYAMGHLIQRKKVHVFGDELSLVTLFRCIQNMPETLPNNSCYSAGIAKLEEGDELQLAI 120
Qy
               66 PIFAMGHVIQRKKVHVFGDELSLVTLFRCIQNMPKTLPNNSCYSAGIARLEEGDEIQLAI 125
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         121 PRENAQISLDGDVTFFGALKL 141
Qу
             126 PRENAQISRNGDDTFFGALKL 146
Db
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1 2	645	88.2	266	2	US-09-879-919-24	Sequence 24, Appl
	645	88.2	266	2	US-09-588-947A-19	Sequence 19, Appl
3			266	2	US-09-589-286A-19	Sequence 19, Appl
4	645	88.2		-	US-09-255-794A-19	Sequence 19, Appl
5	645	88.2	266	2		Sequence 19, Appl
6	645	88.2	266	2	US-09-507-968D-19	•
7	645	88.2	266	2	US-09-589-285-19	Sequence 19, Appl
8	574	78.5	155	2	US-09-589-287B-23	Sequence 23, Appl
9	574	78.5	155	2	US-09-588-947A-23	Sequence 23, Appl
10	574	78.5	155	2	US-09-589-286A-23	Sequence 23, Appl
11	574	78.5	155	2	US-09-507-968D-23	Sequence 23, Appl
12	574	78.5	155	2	US-09-589-285-23	Sequence 23, Appl
13	574	78.5	290	2	US-10-214-065-8	Sequence 8, Appli
14	540	73.9	289	2	US-09-589-287B-38	Sequence 38, Appl
15	540	73.9	289	2	US-09-588-947A-38	Sequence 38, Appl
16	540	73.9	289	2	US-09-589-286A-38	Sequence 38, Appl
17	540	73.9	289	2	US-09-507-968D-38	Sequence 38, Appl
18	515	70.5	218	2	US-09-911-777-1	Sequence 1, Appli
19	483	66.1	102	2	US-09-911-777-3	Sequence 3, Appli
20	457	62.5	232	2	US-09-911-777-2	Sequence 2, Appli
21	222	30.4	149	2	US-09-854-864-19	Sequence 19, Appl
22	222	30.4	240	2	US-09-854-864-4	Sequence 4, Appli
23	210	28.7	136	2	US-09-589-287B-20	Sequence 20, Appl
24	210	28.7	136	2	US-09-588-947A-20	Sequence 20, Appl
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RESULT 8
US-09-589-287B-23
; Sequence 23, Application US/09589287B
; Patent No. 6403770
; GENERAL INFORMATION:
  APPLICANT: Yu et al.
  TITLE OF INVENTION: Antibodies to Neutrokine-alpha
; FILE REFERENCE: PF343P3C1
  CURRENT APPLICATION NUMBER: US/09/589,287B
  CURRENT FILING DATE: 2000-06-08
; Prior application data removed - check PALM or file wrapper
  NUMBER OF SEQ ID NOS: 42
  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 23
   LENGTH: 155
   TYPE: PRT
   ORGANISM: Homo sapiens
US-09-589-287B-23
                       78.5%; Score 574; DB 2; Length 155;
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 Best Local Similarity 81.2%; Pred. No. 1.5e-65;
 Matches 108; Conservative 13; Mismatches 12; Indels
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                 22 DDNGMNLRNRTYTFVPWLLSFKRGNALEEKENKIVVRQTGYFFIYSQVLYTDPIFAMGHV 81
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         129 LDGDVTFFGALKL 141
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Db
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RESULT 14
US-09-589-287B-38
; Sequence 38, Application US/09589287B
; Patent No. 6403770
; GENERAL INFORMATION:
; APPLICANT: Yu et al.
; TITLE OF INVENTION: Antibodies to Neutrokine-alpha
; FILE REFERENCE: PF343P3C1
  CURRENT APPLICATION NUMBER: US/09/589,287B
  CURRENT FILING DATE: 2000-06-08
; Prior application data removed - check PALM or file wrapper
  NUMBER OF SEQ ID NOS: 42
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         168 QDCLQLIADSDTP--
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          268 PRENAQISRNGDDTFFGALKL 288
RESULT 29
US-08-883-086-3
; Sequence 3, Application US/08883086
; Patent No. 6171787
; GENERAL INFORMATION:
    APPLICANT: WILEY, STEVEN
    TITLE OF INVENTION: MEMBER OF THE TNF FAMILY USEFUL TITLE OF INVENTION: FOR TREATMENT AND DIAGNOSIS OF DISEASE
    NUMBER OF SEQUENCES: 13
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Abbott Laboratories
      STREET: 100 Abbott Park Road
      CITY: Abbott Park
      STATE: IL
      COUNTRY: USA
      ZIP: 60064-3500
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Diskette
      COMPUTER: IBM Compatible
      OPERATING SYSTEM: DOS
      SOFTWARE: FastSEQ Version 2.0
     CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/883,086
      FILING DATE:
      CLASSIFICATION: 424
     PRIOR APPLICATION DATA:
      APPLICATION NUMBER:
       FILING DATE:
     ATTORNEY/AGENT INFORMATION:
      NAME: Porembski, Priscilla E.
       REGISTRATION NUMBER: 33,207
      REFERENCE/DOCKET NUMBER: 6134.US.01
     TELECOMMUNICATION INFORMATION:
      TELEPHONE: 847-937-0378
       TELEFAX: 847-938-2623
       TELEX:
   INFORMATION FOR SEQ ID NO: 3:
     SEQUENCE CHARACTERISTICS:
       LENGTH: 147 amino acids
       TYPE: amino acid
       STRANDEDNESS: single
       TOPOLOGY: linear
     MOLECULE TYPE: No. 6171787e
US-08-883-086-3
  Query Match 28.7%; Score 210; DB 2; Length 147; Best Local Similarity 37.1%; Pred. No. 9e-19;
  Matches 46; Conservative 27; Mismatches 41; Indels 10; Gaps
           21 TFVPWLLSFKRGSALEEKENKILVKETGYFFIYGQVLYTDKTYAMGHLIQRKKVHVFGDE 80
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Db
Qy
          138 ALKL 141
               : | |
          144 FVKL 147
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121 PRENAQISLDGDVTFFGALKL 141

Qу

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Dogult.							
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5	657	89.9	184	4	US-10-270-487-43		
6	657	89.9	184	6	US-11-054-539-43	Sequence 43, Appl	
7	657	89.9	239	3	US-09-880-748-3232	Sequence 3232, Ap	
8	657	89.9	239	3	US-09-932-613-177	Sequence 177, App	
	657	89.9	239	3	US-09-932-322-177	Sequence 177, App	
9						Sequence 3232, Ap	
10	657	89.9	239	4	US-10-293-418-3232	-	
11	657	89.9	309	3	US-09-929-493-39	Sequence 39, Appl	
12	657	89.9	309	3	US-09-880-748-3230	Sequence 3230, Ap	
13	657	89.9	309	3	US-09-932-613-175	Sequence 175, App	
14	657	89.9	309	3	US-09-932-322-175	Sequence 175, App	
						Sequence 39, Appl	
15	657	89.9	309	4	US-10-270-487-39	-	
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				6	US-11-021-874-47	Sequence 47, Appl	
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22	656	89.7	152	3	US-09-929-493-41	Sequence 41, Appl	
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14	210	28.7	250	7	US-11-054-515-3239	Sequence 3239, Ap	
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						Sequence 1, Appli	
21	95.5	13.1	157		US-11-053-750-1	Sequence 1, Appli Sequence 1, Appli	
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25	95.5	13.1	157		US-11-179-359-1	Sequence 1, Appli	
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No.	Score	match	Length	ŊΒ	ID	Description	
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9	89.5	12.2	234	1	JQ1344	tumor necrosis fac
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16	78.5	10.7	281	2	I38707	Fas ligand - human
17	78.5	10.7	942	2	C96574	hypothetical prote
18	78.5	10.7	979	2	D96574	hypothetical prote
19	78	10.7	232	1	S12606	tumor necrosis fac
20	78	10.7	261	2	S53090	CD40 ligand - bovi
21	78	10.7	358	1	W2WL51	E2 protein - human
22	77.5	10.6	279	2	A53062	Fas ligand - mouse
23	77	10.5	261	2	I53476	CD40 ligand - huma
24	76.5	10.5	197	1	JH0309	tumor necrosis fac
25	76	10.4	900	2	T41607	probable vacuolar

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4	657	89.9	258	2	Q8BZM8_MOUSE	Q8bzm8 mus musculu
5	657	89.9	309	1	TN13B_MOUSE	Q9wu72 m tumor nec
6	645	88.2	266	2	Q7Z5J2_HUMAN	
7	582	79.6	288	2	Q8JHJ4_CHICK	Q8jhj4 gallus gall
8	574	78.5	290	2	Q7TQ58_MOUSE	Q7tq58 mus musculu
9	379	51.8	387	2	Q4S0H9_TETNG	
10	298.5	40.8	234	2	Q50D53_GASAC	Q50d53 gasterosteu
11	232	31.7	240	2	Q5PQL1_RAT	Q5pql1 rattus norv
12	222	30.4	240	2	Q5F2A4_MOUSE	Q5f2a4 mus musculu
13	222	30.4	241	1	TNF13_MOUSE	Q9d777 mus musculu
14	222	30.4	408	2	Q5F2A1_MOUSE	Q5f2a1 mus musculu
15	222	30.4	410	2	Q8BXS2_MOUSE	Q8bxs2 mus musculu
16	220	30.1	224	2	Q5F2A3_MOUSE	Q5f2a3 mus musculu
17	211	28.9	250	2	Q6FGR7_HUMAN	Q6fgr7 homo sapien
18	210	28.7	146	2	Q6U6I7_HUMAN	Q6u6i7 homo sapien
19	210	28.7	250	1	TNF13_HUMAN	075888 homo sapien
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21	210	28.7	250	2	Q6FGN4_HUMAN	Q6fgn4 homo sapien
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23	210	28.7	250	2	Q541E1_HUMAN	Q541e1 homo sapien
24	210	28.7	330	2	Q8IZK7_HUMAN	Q8izk7 homo sapien
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